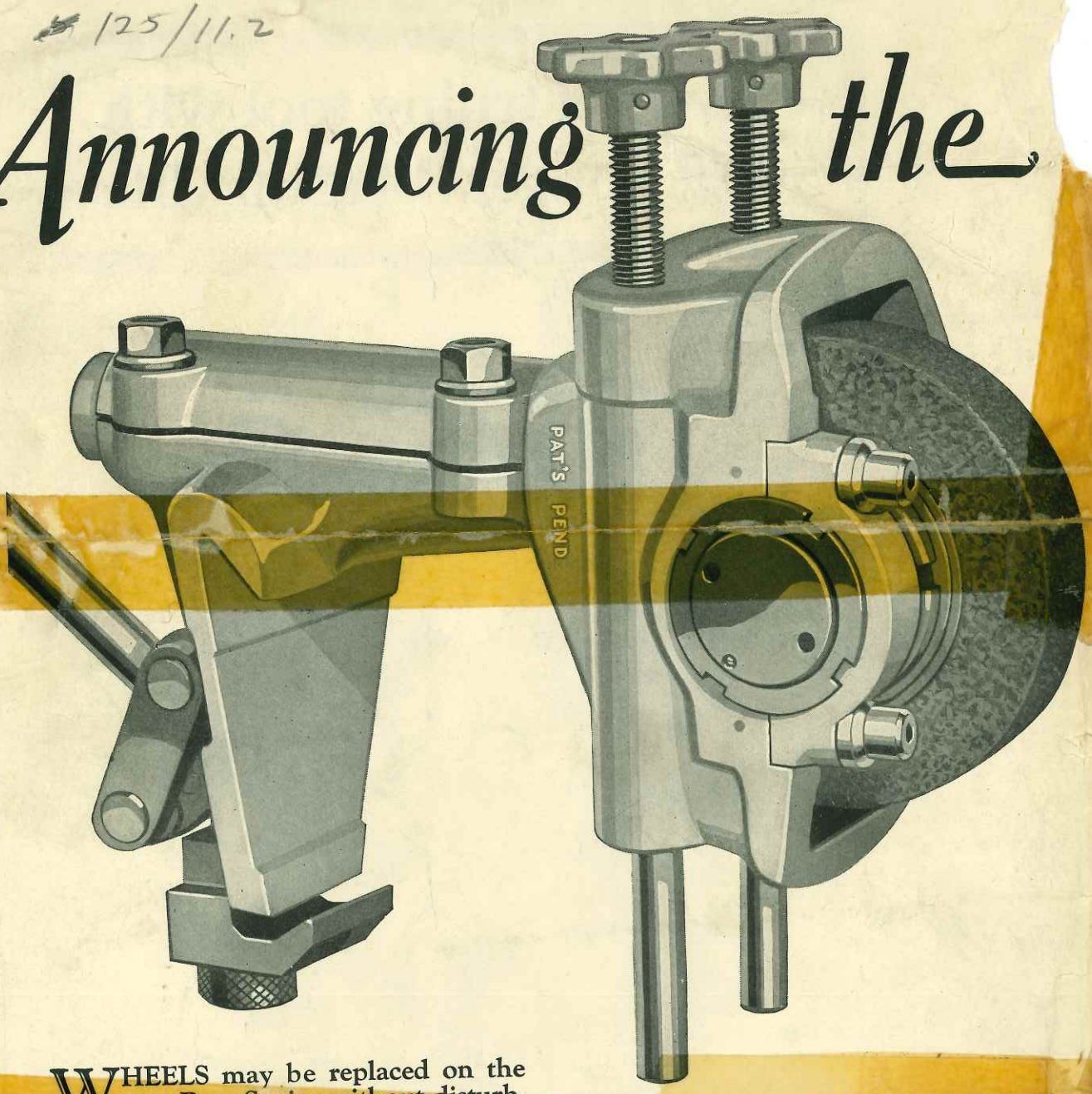
—a wheel truing tool with
500% longer bearing life

Announcing the



WHEELS may be replaced on the new Ross Senior without disturbing the bearing assembly because the wheel mounting and bearing assembly are a single unit. The unit is reversible in the holder and is quickly taken out by removing four hollow-head nuts securing the two bearing caps. One adjustment lasts for the life of the bearings.

The new Ross Senior has two adjustable steady rests, enabling the operator to tilt the truing wheel at any desired angle for best shearing effect. This feature also gives the Senior three-point support on the grinder table, taking the major load from the dresser clamp. The truing wheel is rigidly supported close to the work, eliminating vibration and insuring highest accuracy and uniformity in truing of the emery-wheel. The Ross Senior holder and bracket are of a light-weight heat-treated aluminum composition which absorbs vibration and has greater tensile strength than cast iron.

For finer results than you have ever had from your cylindrical grinding machines, at a fraction of your present wheel truing costs, try a Ross Senior. You'll soon find that you cannot afford to use old-style truing devices. Let us furnish further details.

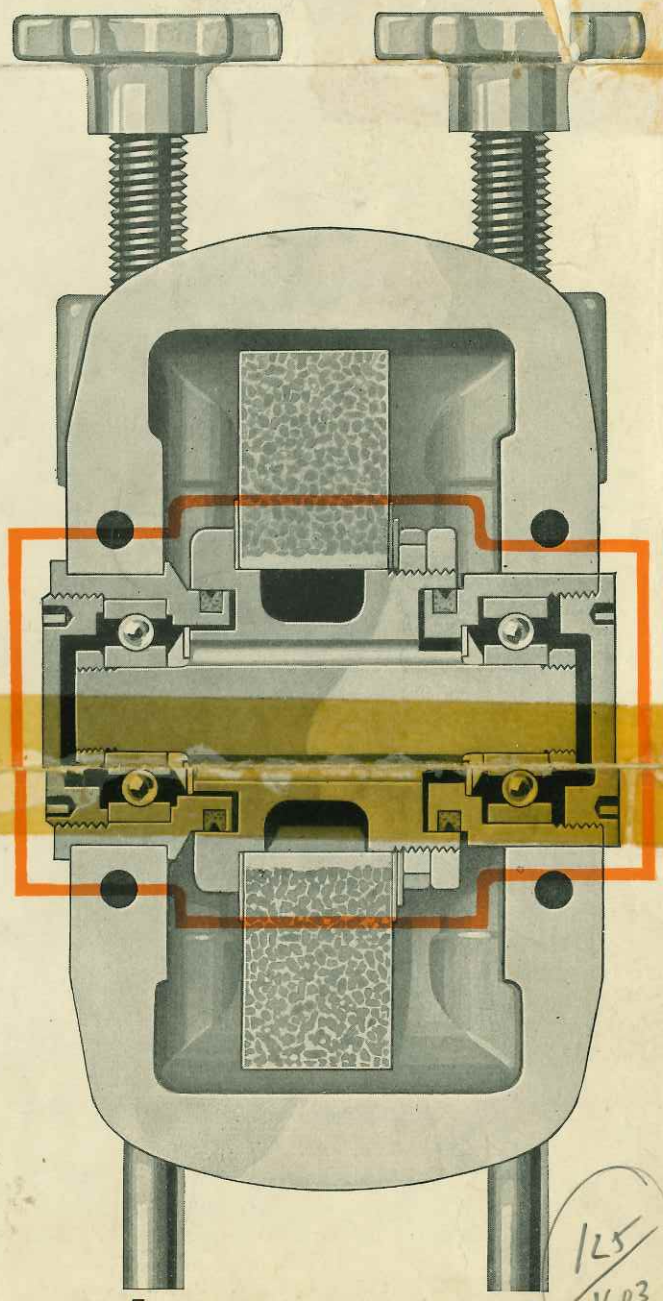
ROSS "SENIOR"

—a wheel truing tool with 500% longer bearing life

WITH five times more bearing life and an entirely new degree of operating accuracy the Ross Senior will radically cut the cost of truing the wheels of your cylindrical grinding machines. The cross-sectional view on this page shows why the Senior is a real contribution to grinding progress.

Note that the new Ross design permits the *inner* ball races to revolve, *decreasing ball speed 40%*. Load-carrying capacity is increased 60% by larger balls and "precision exact" bearings, mounted in hardened and ground tool steel cages. Internal strains are eliminated by a *fixed* and *floating* bearing. These bearings are the closed springless type, freeing the wheel from initial loads and binding. Bearing centers are widely separated, balancing thrusts of the grinder wheel and permanently preventing rocking of the truing wheel. The hub axle is a solid piece with no tendency to distort or vibrate under load. There are four washers, two of felt and two of specially treated cork, all located *outside* the bearing cages. A V-groove around each cork ring forms two edges that flex against the hub, creating an air gap and a positive water and grit seal. The washers are lubricated with the bearings and outlast them. The truing wheel is larger, greatly increasing the number of dressings per wheel.

Every detail of the new Ross Senior is built to modern engineering standards, based on exact computations of all thrust and radial loads and on a practical knowledge of the abuses encountered in modern grinding shops. It is distinctly a new-day tool for new-day grinding needs.



Cross-section of the Ross Senior Truing Tool for cylindrical grinders

The Ross Mfg. Co. Cleveland, Ohio U.S.A.

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